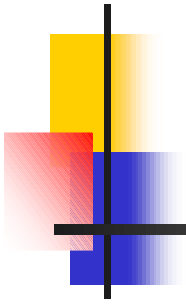
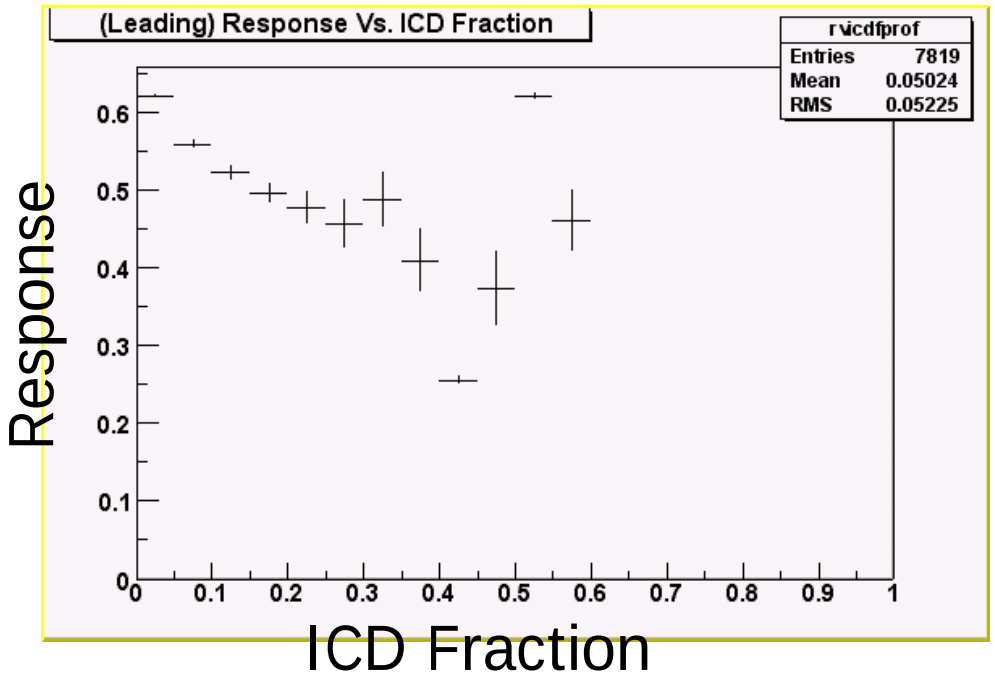


JES ICR correction

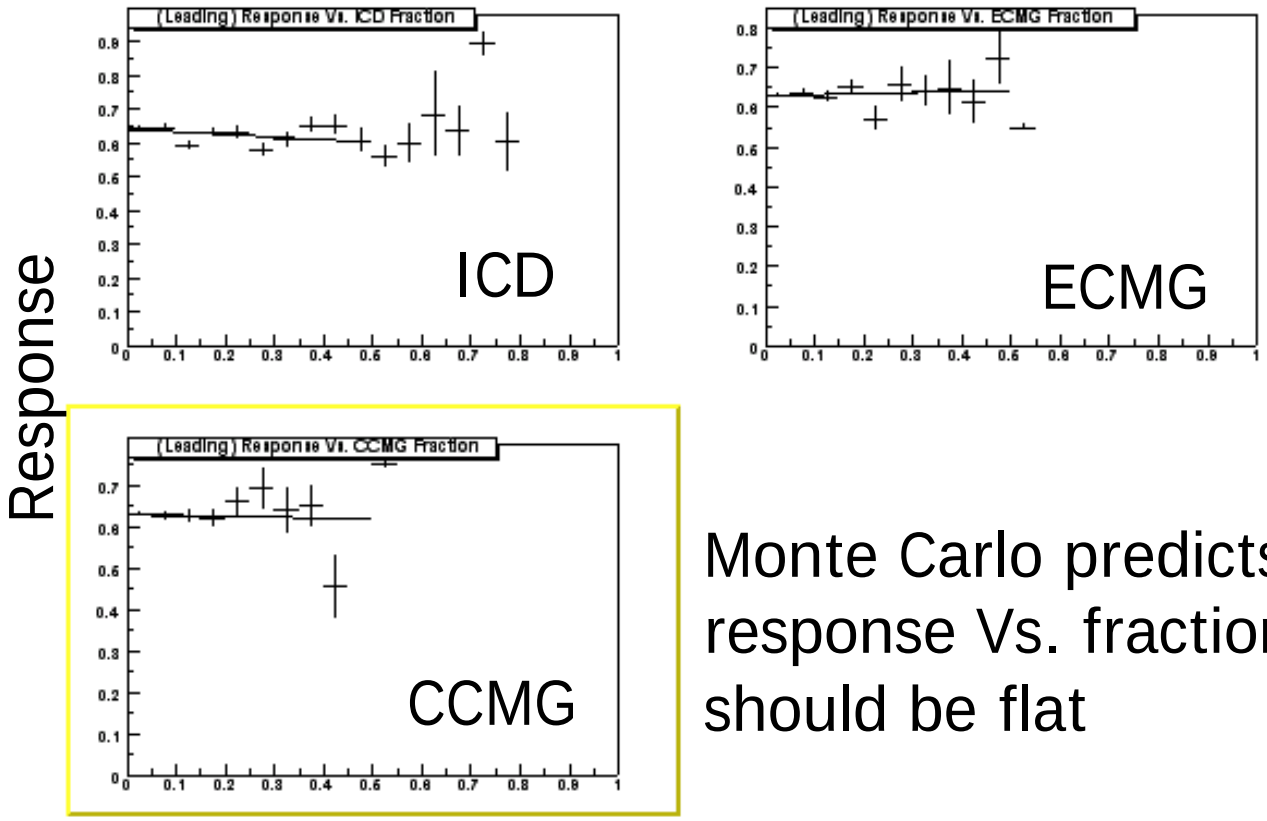
- Thumbnail Strip for p13.05
  - New strip including L1L2Chunk
    - Started 9.30 Strip
    - Taking a little longer than I thought because of SAM issues

Some news on the ICD detector

- **Bob Kehoe noticed that the L1 CAL towers that include mainly ICD towers report much more energy than the precision readout**
- **I noticed the following:**



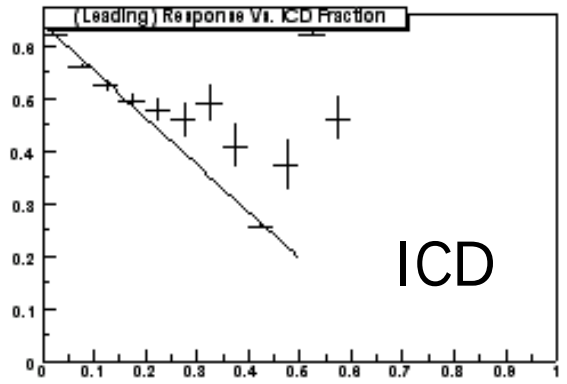
Response in MG Detectors: MonteCarlo

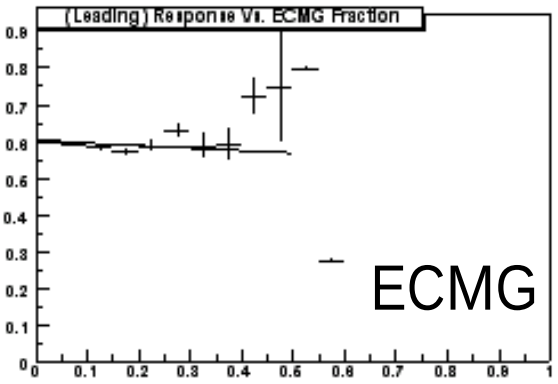


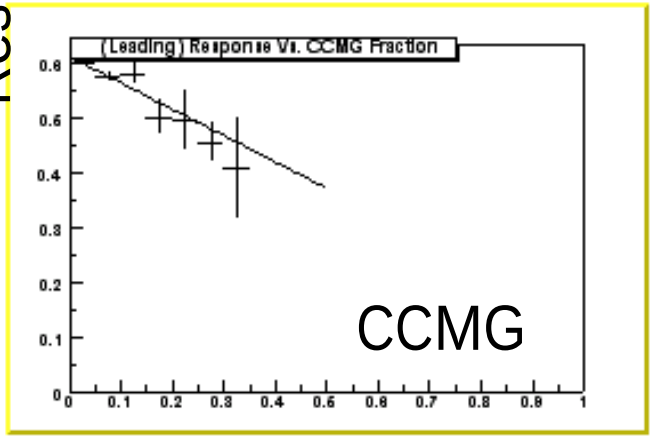
Monte Carlo predicts response Vs. fraction should be flat

Response in MG Detectors: Data

Response





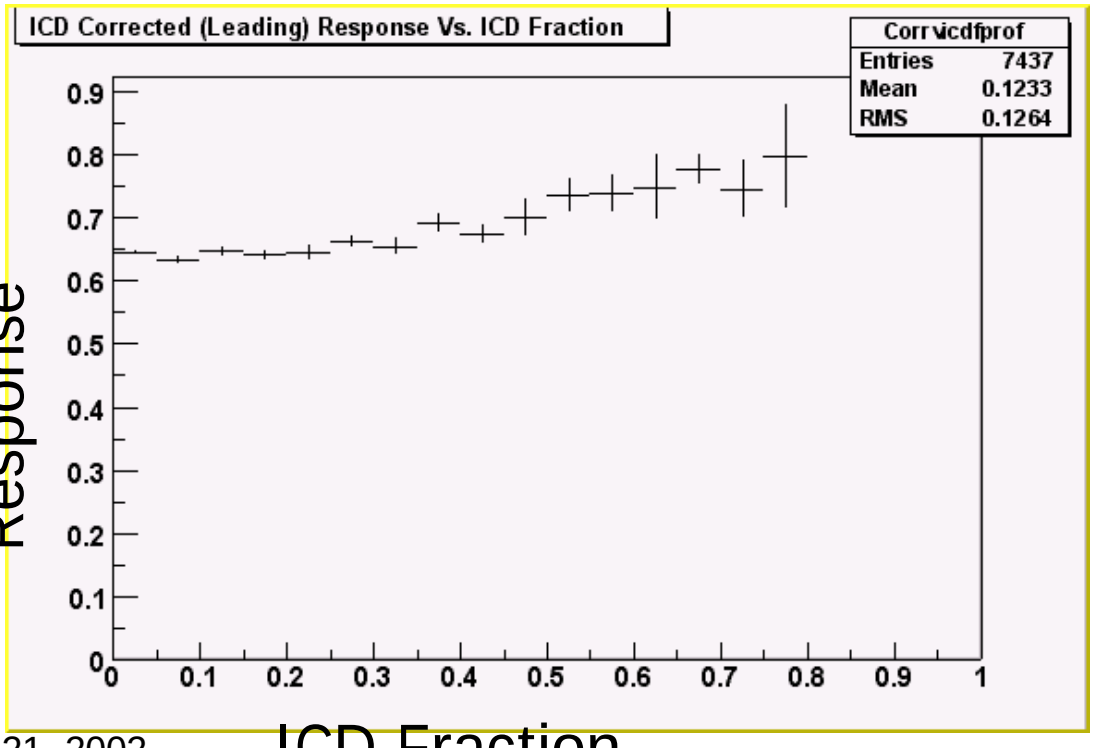


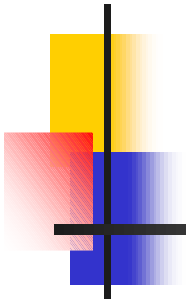
Both ICD and CCMG look low to me.

Fraction (0.0 - 1.0)

ICD reweighting?

- **In conversation with Leslie, Dean, Bob, Andy White, Jae Yu and others I didn't know or forgot about, it was decided that there was a rogue factor of 3.8 put into the ICD weights to represent different preamps from teststand to detector**
- **I put this factor in a crude way into the response/fraction calculations and get:**

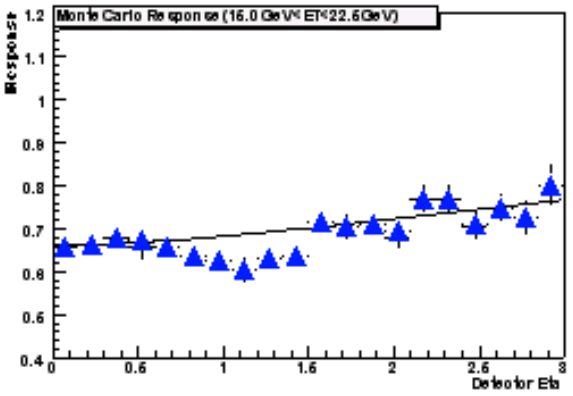


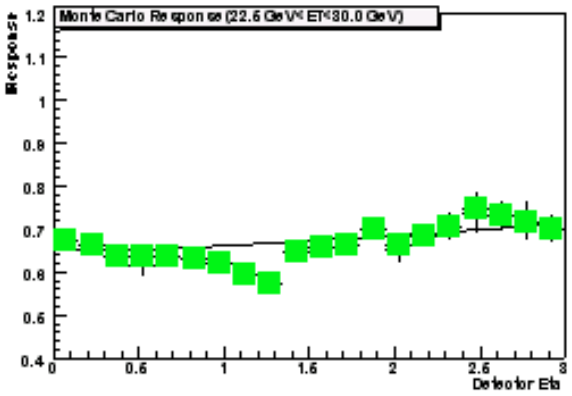


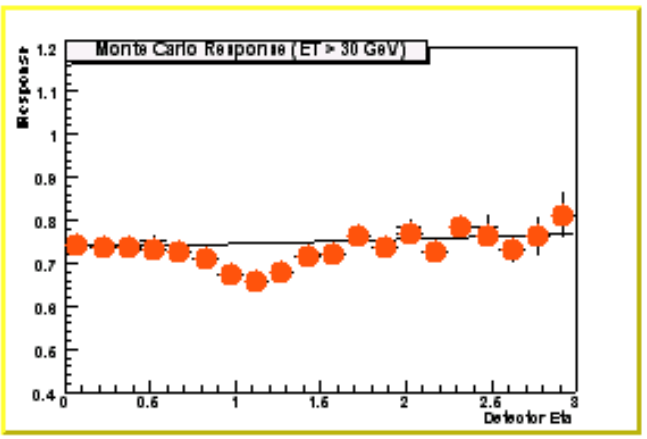
New Response

- **Need to propagate this new response calculation all the way through to eta fits**
- **Hopefully this will get us near the MC prediction for the eta dependence in the ICR region**

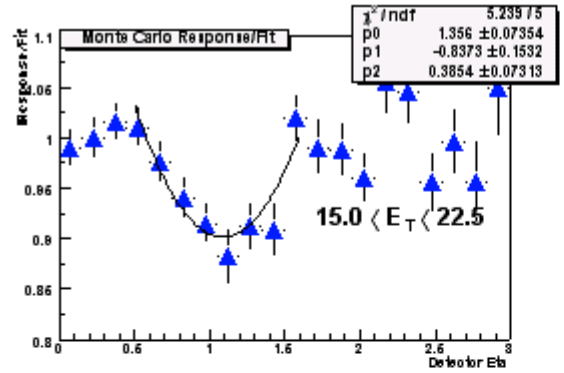
p13.05 Monte Carlo

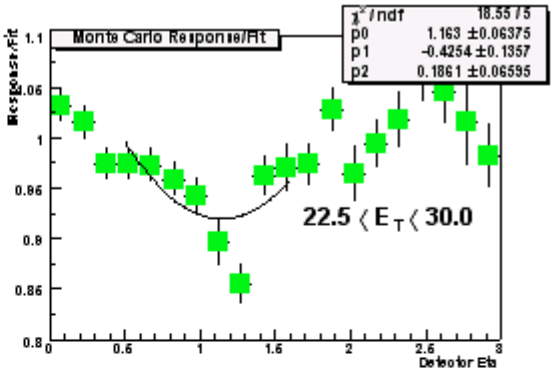


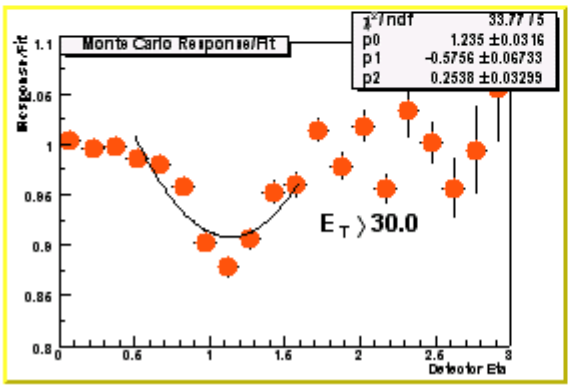




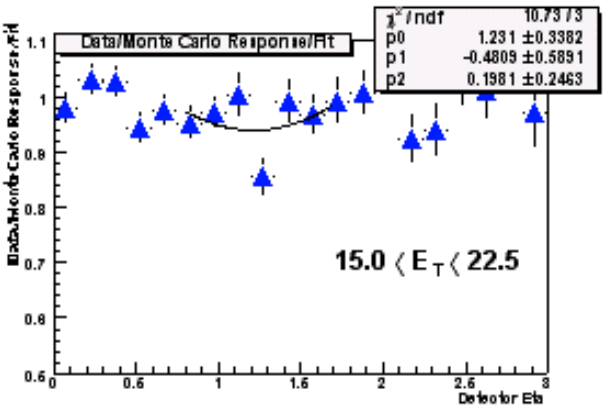
P13.05 Monte Carlo

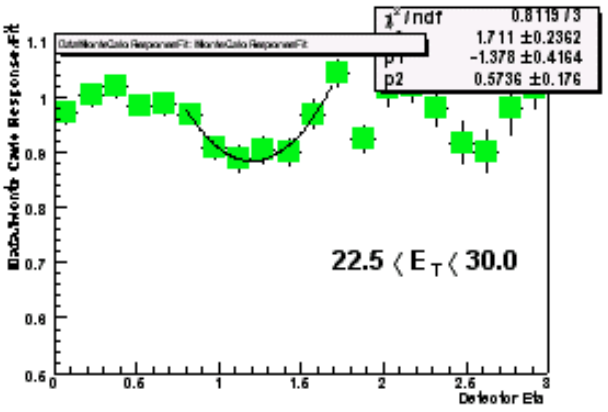


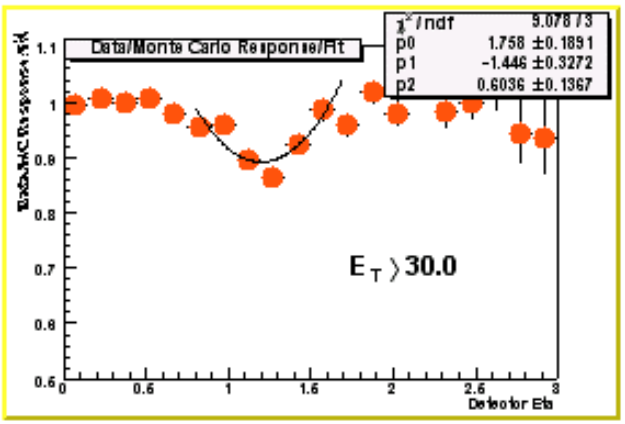


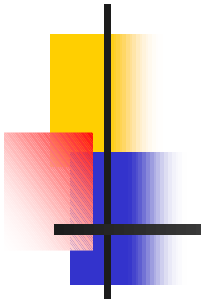


P13.05 Data/Monte Carlo









ICD next step

- **ICD also has channel to channel variation of MIP peaks as seen on the test stand**
- **Looking at muon data to see if I can reproduce test stand result**
- **Would be interesting to put channel to channel variations in MC to see how much this affects the ICR calibration**
- **Need non-trivial calorimeter software framework to get this into the data reconstruction (if we need it)**

ICR correction - Next Steps

- **Finish processing data with L1L2Chunk**
- **Calculate R vs. eta for loose/tight jet cuts**
- **Propose we use ICD factor of 3.8 + R vs. eta in order to smooth out fits in ICR region. (This can be done crudely from the thumbnail)**
- **(Of course the ICD correction factor should go into the energy reconstruction code at some point)**